

Columbia University Bulletin

THE FACULTY OF MEDICINE

Courses in Physical Therapy and Occupational Therapy

1970-1971

Spec 611
H-611
Serial
C
1970-1971

To Communicate with the School

ADDRESS INQUIRIES TO: Physical Therapy or Occupational Therapy, College of
Physicians and Surgeons, 630 West 168th Street, New York, N.Y. 10032

Telephone: (Area code 212) 579-3781

Columbia University

Department of Rehabilitation Medicine

Courses in
Physical Therapy and
Occupational Therapy
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- John A. Downey. *Professor of Rehabilitation Medicine*
B.S., M.D., Manitoba; Ph.D., Oxford
- Raimond Emmers. *Assistant Professor of Physiology*
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B.A., Lebanon Valley; Graduate, Philadelphia School of Occupational Therapy
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B.S., Columbia
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B.S., Columbia
- Althea M. Jones. *Assistant Professor of Physical Therapy*
B.S., Panzer; Certificate in Physical Therapy, Hospital for Special Surgery
- Nathan Kaplan. *Assistant Clinical Professor of Rehabilitation Medicine*
M.E., New York University; M.D., Chicago Medical School
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B.S., New York University
- Rose Krebs. *Instructor in Fine and Industrial Arts (Teachers College)*
B.A., College of the City of New York; M.A. in Art Ed., New York University
- Yasha Lisenco. *Instructor in Fine and Industrial Arts (Teachers College)*
B.S., College of the City of New York; M.A., Columbia
- Harrison L. McLaughlin. *Professor of Clinical Orthopedic Surgery*
M.D., C.M., Queens (Ontario)
- Charles R. Noback. *Professor of Anatomy*
B.S., Cornell; M.S., New York University; Ph.D., Minnesota

Joseph L. O'Brien. *Assistant Professor of Clinical Neurology*
B.A., Princeton; M.D., Cornell

Margaret O'Neill. *Instructor in Physical Therapy*
B.S., M.A., New York University

Hermine D. Plotnick. *Associate in Occupational Therapy*
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B.S., M.A., New York University

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B.S., West Chester State College; Certificate in Occupational Therapy, Columbia

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B.A., New York University; M.D., New York State University

Alfonso Solimene. *Instructor in Anatomy*
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Jerome Steiner. *Instructor in Psychiatry*
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B.S., Certificate in Physical Therapy, New York University

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B.S., New York University; Certificate in Occupational Therapy, Columbia

Janet G. Vandiveer, O.T.R. *Assistant Professor of Occupational Therapy*
B.S., Columbia

Shyh-Jong Yue. *Associate Clinical Professor of Rehabilitation Medicine*
M.D., National College of Medicine, Shanghai

Edwin Ziegfeld. *Professor of Art and Education (Teachers College)*
B.S.L.A., B.S. in Ed., Ohio State; M.L.A., Harvard; Ph.D., Minnesota

► SPECIAL LECTURERS

Josephine Cohen, O.T.R. *Director, Occupational Therapy, Department of Physical Medicine and Rehabilitation, Mt. Sinai Hospital, New York City*
B.S., Pennsylvania

Nedra P. Gillette, O.T.R. *Former Instructor and Supervising Occupational Therapist, Psychiatric Unit, University of Illinois Research and Education Hospitals*
B.S., Illinois

Lou Ann Hyder, O.T.R. *Former Occupational Therapist, Vanderbilt Clinic, Presbyterian Hospital*
B.S., Columbia

Earl A. Lewis. *Prosthetic Research and Education Officer, Veterans Administration*
B.A., Brooklyn; Certificate in Physical Therapy, Stanford; M.A., New York University

Betty Meredith-Jones. *Instructor, New School for Social Research*
Graduate, Chelsea College, London; M.A., Columbia

Phillip Petrolino, O.T.R. *Assistant Director, Activities Therapy Department, Hillside Hospital, Glen Oaks, N.Y.*

B.S., Certificate in Occupational Therapy, New York University

Joan Pfitzenmaier. *Supervisor, Clinical Education, Presbyterian Hospital*

B.S., Diploma in Physical Therapy, Simmons

Joseph E. Snyder. *Assistant Vice President, Presbyterian Hospital*

B.A., Nebraska; M.D., Pennsylvania

Sol L. Warren. *State Coordinator of Internship Training, Division of Vocational Rehabilitation, New York State Department of Education*

B.S., Brooklyn; M.A., Columbia; Ph.D., New York University

► ADMINISTRATIVE STAFF

Inez E. Klinck, B.A. *Assistant to the Dean*

Bernis D. Moss, Jr., M.S. *Business Officer*

Eileen H. Daly. *Assistant to the Registrar of the University*

Mary S. Purcell. *Administrative Assistant*

Key to Course Listings

Each course number consists of capital letters followed by four digits and the term designation.

The capital letters indicate the curriculum for whose students the course is primarily offered:

H.P. *Health Professions (conjoint courses for students of Physical Therapy and Occupational Therapy)*

O.T. *Occupational Therapy*

P.T. *Physical Therapy*

The level of the course is represented by *the first digit*:

3 *Undergraduate course, advanced*

4 *Graduate course which is open to qualified undergraduates*

6 *Graduate course*

The subject area of the course is represented by *the second digit*:

1 *Biological sciences*

2 *Behavioral sciences*

3 *Medical conditions*

4 *Treatment modalities*

5 *Professional concepts and treatment*

6 *Clinical experience*

TERM DESIGNATIONS: X, Y, AND S

An *x* following the course number indicates that the course meets in the autumn term; a *y* indicates the spring term; and an *s* indicates the summer session.

Courses in Physical Therapy

Physical therapy contributes to the comprehensive care of disabled, injured, and handicapped individuals. It is involved with the preservation of functional capacity, restoration of function, and the prevention of disability due to disease or injury. The ultimate aim is to help the patient attain his maximum performance and to assume his place in society while learning to live within the limits of his capabilities.

As a member of a group working cooperatively with the physician, nurse, social worker, occupational therapist, psychologist, and others, the physical therapist plays an important role in helping the patient attain the highest possible degree of physical, mental, social, and occupational independence. He participates in the evaluation of the patient by performing and interpreting tests and measurements of neuromuscular and musculoskeletal functions as an aid to treatment. He plans and implements treatment programs on the basis of these test findings and within the referral or prescription of the physician. Utilization of the therapeutic properties of exercise, heat, cold, electricity, sound, and massage, as well as assistive devices such as canes, crutches, and prostheses, are also among the means used to attain the goal of maximum performance and independence. Practice may encompass treatment of individual patients, planning and administering programs for groups of patients, or cooperative planning for community health programs. The physical therapist may work in hospitals, clinics, children's centers, physicians' offices, rehabilitation centers, the U.S. Public Health Service, the Visiting Nurse Service, and other community health agencies. He may be self-employed, work part time, or enter the Armed Services. The experienced physical therapist may assume responsibilities in the administration of a physical therapy department and the supervision of other physical therapists and supportive personnel; he may become involved in academic or clinical teaching, participate in research, provide consultation services to agencies and members of other health professions, coordinate physical therapy services with those of other professions, and serve as an administrator in professional and supportive levels of education in physical therapy. Opportunities are excellent and limitless in the field of physical therapy, and the demand for qualified physical therapists far exceeds the present supply. The area of service, research, and education assures physical therapists an interesting selection of positions in this country and in many other parts of the world.

The student in the program of study at Columbia is expected to have a broad background in general education, including knowledge of the fundamental principles of the social, biological, and physical sciences. The professional curriculum is designed to give the student a foundation in the basic and medical sciences which underlie the practice of physical therapy. It proceeds from there to the knowledge and skills more directly related to practice. Through this integrated, sequential course of study, the student develops an understanding of the principles, concepts, and skills which are necessary for the proper practice of the profession. In addition to demonstrations and practice and theoretical classroom instruction, there is con-

current clinical instruction and experience in teaching hospitals under University supervision.

The Bachelor of Science degree is awarded upon completion of the full two-year program. This program is based upon two years (60 semester credits) of college work in the liberal arts, including the proper science prerequisites.

The Certificate of Proficiency in Physical Therapy is awarded upon completion of the program (academic and clinical) prescribed for students of advanced standing. This program is based upon the work done for the bachelor's degree at an accredited college or university, including the courses required for admission to the program.

The courses described in this bulletin meet the requirements of both the American Physical Therapy Association and the Council on Medical Education of the American Medical Association. These organizations regulate the standards by which schools offering physical therapy courses are accredited. Graduates of either program are eligible for membership in the American Physical Therapy Association.

Most states require licensing or registration of physical therapists, for which examinations are held at intervals during the year. A student should become familiar with the requirements in his state so that any required examination may be taken as soon as possible after graduation. In New York State the law requires that a graduate pass the qualifying examination conducted by the Department of Education of the State of New York. This examination is usually held in June and December of each year. According to the law in New York State, only those persons who are citizens or who have filed intentions of becoming citizens of this country may be considered for admission to the examination.

ADMISSION REQUIREMENTS

Students are admitted only in September. In subjects taken at other institutions for which transfer credit is allowed, a grade of C or better is required. The ability to swim is required for both programs of study in the second term. Students unable to swim at the time of admission are responsible for securing instruction for themselves before the second term. Applicants for admission must be graduates of approved high schools or the equivalent, and then must satisfy *one* of the following:

FOR THE DEGREE PROGRAM

The completion of at least 60 semester credits (two years) of liberal arts courses in a college approved by Columbia University. Courses must include (a) 8 semester credits in biological science, (b) 8 semester credits in physics, (c) 6 semester credits in English, and (d) 6 semester credits in psychology.* Elective courses in foreign languages, literature, humanities, social sciences, and natural sciences are recommended. Students who have had a balanced education are preferred.

* Requirements for admission to the licensure examination for physical therapists in the state of New York include 6 semester credits in biology, 6 in chemistry, and 6 in physics. Students who plan to practice in New York State should accordingly fulfill these requirements.

FOR THE CERTIFICATE PROGRAM

Graduation from an approved college with at least a Bachelor of Science or Bachelor of Arts degree, the undergraduate work to include (a) 8 semester credits in biological science, (b) 8 semester credits in physics, (c) 6 semester credits in English, and (d) 6 semester credits in psychology.* Elective courses in foreign languages, literature, humanities and social sciences, and natural sciences are recommended. Students who have had a balanced education are preferred.

ADMISSION PROCEDURE

Application forms may be obtained by writing to Courses in Physical Therapy, College of Physicians and Surgeons, 630 West 168th Street, New York, N.Y. 10032, and should be filed by April 1 preceding the academic year in which the student wishes to begin his studies. The completed form must be accompanied by the application fee (see page 38). This fee is not returnable and is not credited toward tuition. Transcripts of all post-secondary education should be forwarded by the registrars of the respective schools directly to the Director of Courses in Physical Therapy.

A personal interview will be arranged for each applicant.

FOREIGN STUDENTS

Students from other countries are urged to apply for admission several months in advance of the time they wish to begin their studies. Application must be made on the form provided by the College of Physicians and Surgeons. The applicant must fulfill the usual admission requirements, as all students are considered for admission on the same basis.

A personal interview is required of all applicants, when feasible. If the applicant does not plan to be in this country until after action has been taken on his application, the College will try to arrange for an interview with a therapist or physician in the home country.

At the time application is filed, records must be submitted of all college or university education completed. These will be evaluated by the Foreign Student Admissions Officer of the University to determine the equivalency of the applicant's educational background in terms of admission requirements.

Further information about expenses, living arrangements in this country, and the University orientation program for foreign students may be obtained by writing to the Foreign Student Adviser, 211 The Foreign Student Center, Columbia University, New York, N.Y. 10027, U.S.A.

* Requirements for admission to the licensure examination for physical therapists in the state of New York include 6 semester credits in biology, 6 in chemistry, and 6 in physics. Students who plan to practice in New York State should accordingly fulfill these requirements.

Program of Study

The University reserves the right to withdraw or modify these courses or to change the instructor as may be necessary.

► DEGREE PROGRAM

Degree candidates take the entire program of courses listed below and should consult the bulletins of Teachers College and the School of General Studies for suitable electives.

The program is summarized in outline form on page 14. See page 7 for the Key to Course Listings.

JUNIOR YEAR: AUTUMN TERM

***Anatomy H.P. 3101x. Human anatomy**

Professor Noback, and Misses Cynkin and Hecox, and associates. 3 points.

Anatomy of the human body, with emphasis on those features which are most important for muscular activity. Instruction is given by means of lectures and laboratory work, the latter based on prepared dissection of the human body.

***Exercise P.T. 3431x. Theory and practice of basic movements and posture**

Misses Meredith-Jones (in charge) and Hecox. 2 points.

The dynamics of normal human motion and analysis of body alignment. Lectures and laboratory.

***Kinesiology P.T. 3107x. Applied anatomy and kinesiology, I**

Professor Dickinson and associates. 2 points.

Application of knowledge of gross anatomy of skeletal and muscular systems to mechanics of bodily movement; application of neurophysiological principles to human motion. Analysis of skills used in daily activity. Lectures and laboratory.

***Neuroanatomy H.P. 3103x. Anatomy of the nervous system**

Dr. O'Brien. 2 points.

Anatomy of the nervous system of man, including the structural unit, the cerebrospinal system, and the autonomic system. Attention is given to the gross divisions of the brain, spinal cord, and peripheral nerves, with emphasis on the controls affecting voluntary motion.

***Orientation P.T. 3551x. Professional orientation**

Professor Callahan and associates. 0 points.

A general introduction to the organization of hospitals and to the historical developments and trends in physical therapy. Survey of the role and function of the physical therapist and other personnel, and their interrelationships in patient care.

***Clinical Education P.T. 3433x. Patient management**

Professors Jones and Schucman, and associates. 2 or 3 points.

Certificate candidates complete 2 points and degree candidates complete 3 points. Work for the 3rd point includes additional assignments related to the psychosocial aspects of patient care.

The course is designed to develop a comprehensive understanding of patients as persons; provides early clinical experience; small group discussions with members representing health disciplines in rehabilitation medicine; fundamental patient-care activities encountered while performing physical therapy procedures. Lectures, demonstrations, and laboratory.

***Physiology H.P. 3105x. Human physiology**

Professors Dellenback and Emmers. 3 points.

A comprehensive discussion of the major organ systems of the human body, with emphasis on neurophysiology and the physiology of exercise. Assigned readings and selected demonstrations.

JUNIOR YEAR: SPRING TERM

***Exercise P.T. 3432y. Principles and application of exercise in treatment**

Professors Darling and Jones, and associates. 4 points.

The basic principles of therapeutic exercise, including physiology of exercise and muscle re-education, muscle evaluation, tests and measurements, and evaluation of functional activities. Principles of teaching activities to patients; analysis of skills used in daily activity and other activities in physical therapy. Lectures and laboratory.

***Kinesiology P.T. 4108y. Applied anatomy and kinesiology, II**

Professors Dickinson, Emmers, and Jones. 2 points.

A continuation of *Kinesiology P.T. 3107*.

***Neurology H.P. 4325y. Neurological conditions**

Professor Charlton. 2 points.

Etiology, symptomatology, and treatment in diseases of the brain, spinal cord, and peripheral nerves.

***Orthopedics H.P. 4327y. Orthopedic conditions**

Dr. Andrews. 2 points.

Lectures and clinical presentations, including discussion of related social, medical, surgical, and rehabilitative problems.

***Physical Agents P.T. 3434y. Electrotherapy, thermotherapy, and hydrotherapy**

Professors Darling, and Kaplan, and Miss Hecox. 3 points.

Physiological principles and technique of the diagnostic and therapeutic uses of electricity, sound, heat, cold, and water and other liquids in therapy. Lectures and laboratory.

***Psychiatry P.T. 4322y. Clinical psychiatry**

Dr. Siegal and associates. 2 points.

Etiology and symptomatology of the major and minor psychoses, including the psychoneuroses and their treatment. Lectures, discussions, and clinical presentations.

SUMMER

Degree candidates spend eight weeks (June and July) in full-time clinical education and experience at one or more of the affiliated hospitals (see pages 15-17). They attend lectures, clinics, and staff meetings, receive supervised practical experience in physical therapy, prepare a case study, and are introduced to related treatment departments.

Certificate candidates have a similar experience for four months (June, July, August, and September).

SENIOR YEAR: AUTUMN TERM

Clinical Education P.T. 3681x. Clinical experience

Professor Dickinson (coordinator). 4 points.

Lectures, observation, demonstrations, and supervised practice in various clinics of physical medicine and rehabilitation. Scheduled meetings on assigned reading, reports, and orientation to program planning.

***Massage P.T. 3435x. Essentials of massage and techniques of relaxation**

Professors Gurewitsch and Jones (in charge). 2 points.

Principles and techniques of basic massage and relaxation, with emphasis on relating knowledge of anatomy, physiology, and pathology to massage. Lectures, demonstrations, and practice.

***Medicine and Surgery H.P. 4323x. Medical and surgical conditions**

Professors Downey (medicine) and Bertsch (surgery). 2 points.

Medical conditions: a survey of medicine, with emphasis on medical conditions commonly seen by therapists. Lectures deal primarily with the relationship of pathological physiology to the development of signs and symptoms of disease. *Surgical conditions:* a survey of those common diseases for which surgical treatment is emphasized, including the underlying anatomy, pathology, and biochemistry.

Psychiatry P.T. 4216x. Psychiatric considerations in medicine

Dr. Steiner. 2 points.

Aspects of disease, hospitalization, and treatment, including discussions of anxiety, depression, dependency, regression, pain, and more specific psychiatric syndromes as exemplified in actual patients.

Research H.P. 4561x. Introduction to research

Professor Downey, and Miss Cordery (coordinator). 2 points.

Enrollment is limited.

Open to senior students on an elective basis.

Prerequisite: permission of the director.

An introduction to the philosophy, principles, and methods of scientific inquiry. Methods of investigation; the nature of evidence; obtaining, measuring, and evaluating information; the critical analysis of published research; library resources. Students have the opportunity to work in small groups for the purpose of formulating research proposals.

Electives (6 points).

Chosen with the approval of the adviser. Elective courses are arranged so that students may continue or supplement the work done in prescribed courses.

SENIOR YEAR: SPRING TERM***Clinical Applications P.T. 3554y. Survey of medical and surgical conditions in relation to physical medicine**

Professor Darling and associates. 3 points.

This course gives the student a clear acquaintance with disease as it occurs in the practice of physical medicine. Specialists discuss the problems in their fields of practice, including particular pathology and the needs of physical medicine. This analysis is followed by prescriptive physical therapy to cover these special indications. There will be further clinical practice in hospitals.

Clinical Education P.T. 3682y. Clinical experience

Professor Dickinson (coordinator). 6 points.

A continuation of *Clinical Education P.T. 3681*.

***Orientation P.T. 3552y. Seminar**

Professor Callahan and associates. 0 points.

Lecture and discussion of topics of importance to the therapist in practice, including organization and administration of departments of physical therapy; job placement and recent developments in physical medicine. Orientation to the physical therapist in public health, and his contributions to healthy community relationships and to trends in physical therapy education.

Electives (6 points).

Chosen with the approval of the adviser. Elective courses are arranged so that students may continue or supplement the work done in prescribed courses.

► CERTIFICATE PROGRAM

The certificate program is outlined on page 14. It consists of the starred courses listed under the degree program.

Outline of the Program

B.S. DEGREE PROGRAM

JUNIOR YEAR: AUTUMN TERM	POINTS	JUNIOR YEAR: SPRING TERM	POINTS
H.P. 3101: Human anatomy	3	H.P. 4325: Neurological conditions	2
H.P. 3103: The nervous system	2	P.T. 3432: Principles and application of exercise	4
H.P. 3105: Human physiology	3	P.T. 3434: Electrotherapy, thermo-therapy, and hydrotherapy	3
P.T. 3107: Kinesiology, I	2	P.T. 4108: Kinesiology, II	2
P.T. 3431: Basic movements and posture	2	P.T. 4322: Clinical psychiatry	2
P.T. 3433: Patient management	3	H.P. 4327: Orthopedic conditions	2
P.T. 3551: Professional orientation	0		
Total points	15	Total points	15

SENIOR YEAR: AUTUMN TERM	POINTS	SENIOR YEAR: SPRING TERM	POINTS
H.P. 4323: Medicine and surgery	2	P.T. 3552: Seminar	0
P.T. 3435: Massage and relaxation	2	P.T. 3554: Medical and surgical conditions and physical medicine	3
P.T. 3681: Clinical education	4	P.T. 3682: Clinical education	6
P.T. 4216: Psychiatry in medicine	2	Electives	6
Electives	5		
Total points	15	Total points	15

CLINICAL OBSERVATION, EDUCATION, AND SUPERVISED EXPERIENCE: in June and July between the junior and senior years.

CERTIFICATE PROGRAM

AUTUMN TERM	POINTS	SPRING TERM	POINTS
H.P. 3101: Human anatomy	3	H.P. 4325: Neurological conditions	2
H.P. 3103: The nervous system	2	H.P. 4327: Orthopedic conditions	2
H.P. 3105: Human physiology	3	P.T. 3432: Principles and application of exercise	4
H.P. 4323: Medicine and surgery	2	P.T. 3434: Electrotherapy, thermo-therapy, and hydrotherapy	3
P.T. 3107: Kinesiology, I	2	P.T. 3552: Seminar	0
P.T. 3431: Basic movements and posture	2	P.T. 3554: Medical and surgical conditions and physical medicine	3
P.T. 3433: Patient management	2	P.T. 4108: Kinesiology, II	2
P.T. 3435: Massage and relaxation	2	P.T. 4322: Clinical psychiatry	2
P.T. 3551: Professional orientation	0		
Total points	18	Total points	18

CLINICAL EDUCATION AND SUPERVISED EXPERIENCE: in June, July, August, and September following completion of the course work.

Hospitals Affiliated for Clinical Education

During the autumn and spring terms, attendance in the hospitals and clinics listed below is concurrent with regular classroom work for degree candidates. In the summer, both degree candidates and certificate candidates are required to spend a period in full-time clinical practice (see "Summer," page 12). During this period students attend lectures, clinics, and staff meetings, receive supervised practical experience in physical therapy, and are introduced to related treatment departments.

BLYTHEDALE, VALHALLA, N.Y.

Robert Stone. *Executive Director*
A. David Gurewitsch, M.D. *Medical Director*
Margaret O'Neill. *Chief Physical Therapist*

BURKE REHABILITATION CENTER, WHITE PLAINS, N.Y.

John Homjak. *Administrator*
Edward J. Lorenze, M.D. *Medical Director*
Anthony De Rosa. *Coordinator of Rehabilitation and Education Services*
Barbara Amen. *Director, Physical Therapy*

COLUMBIA-PRESBYTERIAN MEDICAL CENTER HOSPITALS, NEW YORK, N.Y.

Alvin J. Binkert. *Executive Vice President and General Manager*
Robert C. Darling, M.D. *Director, Clinical Rehabilitation Medicine*
Judith Hogan. *Chief Physical Therapist*

GOLDWATER MEMORIAL HOSPITAL, NEW YORK UNIVERSITY MEDICAL CENTER, WELFARE ISLAND, N.Y.

Matthew Lee, M.D. *Director, Rehabilitation Medicine Service*
Alice L. Eason. *Chief, Physical Therapy Department*

HARTFORD REHABILITATION CENTER, INCORPORATED, HARTFORD, CONN.

Arthur D. Wolf, M.D. *Supervising Medical Consultant*
Dolly Burns. *Supervisor, Physical Therapy Department*

HOSPITAL FOR SPECIAL SURGERY, NEW YORK, N.Y.

T. Gordon Young. *Director*
Anna Kara, M.D. *Director, Physical Medicine and Rehabilitation*
Judith M. Kurtz. *Chief Physical Therapist*

INSTITUTE FOR THE CRIPPLED AND DISABLED, NEW YORK, N.Y.

Lawrence W. Friedmann, M.D. *Medical Director*
Theodore Corbitt. *Supervising Therapist*

INSTITUTE OF REHABILITATION MEDICINE, NEW YORK UNIVERSITY

MEDICAL CENTER, NEW YORK, N.Y.
Howard A. Rusk, M.D. *Medical Director*
Jack M. Hofkosh. *Supervisor, Physical Therapy Department*

KESSLER INSTITUTE FOR REHABILITATION, WEST ORANGE, N.J.

William K. Page, Jr. *Executive Director*
 Henry H. Kessler, M.D. *Director of Professional Education and Research*
 Richard Sullivan, M.D. *Medical Director*
 James Tucker. *Director of Physical Therapy*

MIDDLESEX REHABILITATION AND POLIO HOSPITAL, NORTH BRUNSWICK, N.J.

Maurice Dorsen. *Administrator*
 Mark Friedman, M.D. *Attending Physiatrist*
 Michael R. Sofranko. *Chief Physical Therapist and Coordinator of Therapies*

MONTEFIORE HOSPITAL, NEW YORK, N.Y.

Martin Cherkasky, M.D. *Director*
 Jerome S. Tobis, M.D. *Chief, Division of Rehabilitation Medicine*
 George Vagias. *Director of Physical Therapy*

MOUNT SINAI HOSPITAL, NEW YORK, N.Y.

Martin R. Steinberg, M.D. *Director*
 Lawrence H. Wisham, M.D. *Chief, Physical Medicine and Rehabilitation*
 John Capeocchi. *Director, Physical Therapy*

NEW YORK HOSPITAL, NEW YORK, N.Y.

Willibald Nagler, M.D. *Director, Department of Physical Medicine and Rehabilitation*
 Leah Eisenstein. *Supervisor of Therapy Services*

NEW YORK MEDICAL COLLEGE

Center for Chronic Disease, Bird S. Coler Hospital, Welfare Island, New York
 Milton Lowenthal, M.D. *Director*
 Ronald Green, M.D. *Acting Chief of Clinical Services, Physical Medicine and Rehabilitation*
 Milton C. Bailey. *Chief, Physical Therapy Section*

Metropolitan Hospital

Catherine Hinterbuchner, M.D. *Director of Rehabilitation Medicine*
 Gwendolyn Harding. *Acting Chief Physical Therapist*

NEW YORK STATE REHABILITATION HOSPITAL, WEST HAVERSTRAW, N.Y.

Michael Carpendale, M.D. *Director*
 Jeanne LaVigne. *Educational Supervisor, Physical Therapy Section*

ST. LUKE'S HOSPITAL, NEW YORK, N.Y.

Charles W. Davidson. *Executive Director*
 Shyh-Jong Yue, M.D. *Director, Department of Physical Medicine*
 (Mrs.) Doris Lambert. *Supervisor, Physical Therapy*

STATE OF CONNECTICUT VETERANS HOME AND HOSPITAL, ROCKY HILL, CONN.

Herman L. Kamenetz, M.D. *Chief, Physical Medicine and Rehabilitation*
 Herbert Jones. *Supervisor of Physical Therapy*

U.S. PUBLIC HEALTH SERVICE, OUTPATIENT CLINIC, NEW YORK, N.Y.

Philip L. Spencer, M.D. *Associate Director, Ambulatory Care*
 Jonathan T. Spry. *Chief, Physical Therapy*
 L. Allan Stone. *Director of Research and Training*

VETERANS ADMINISTRATION HOSPITAL, BRONX, N.Y.

Abraham M. Kleinman, M.D. *Director*
 Haskal O. Ellis, M.D. *Chief, Physical Medicine and Rehabilitation Service*
 Morris Vogel. *Chief, Physical Therapy*

VETERANS ADMINISTRATION HOSPITAL, BROOKLYN, N.Y.

P. R. Casesa, M.D. *Director*

L. Chen, M.D. *Chief, Physical Medicine and Rehabilitation Service*

Walter G. Fitzsimmons. *Chief, Physical Therapy*

VETERANS ADMINISTRATION HOSPITAL, MONTROSE, N.Y.

Leon Rackow, M.D. *Director*

Stephen J. Cenkner, M.D. *Chief, Physical Medicine and Rehabilitation Service*

Roy Frank. *Chief, Physical Therapy*

VETERANS ADMINISTRATION HOSPITAL, NEW YORK, N.Y.

John V. Sheehan. *Director*

Edith Kristeller, M.D. *Chief, Physical Medicine and Rehabilitation Service*

Aleks Tandyrak. *Chief, Physical Therapy*

VISITING NURSE SERVICE OF NEW YORK, N.Y.

(Mrs.) Ione Carey. *Director, Education*

Annemarie Rumpler. *Senior Physical Therapy Consultant*

Courses in Occupational Therapy

Occupational therapy is the use of purposeful activity as treatment in the rehabilitation of persons with physical or emotional disabilities. Among the tools of treatment used by the occupational therapist are creative and manual arts, activities of daily living, prevocational skills, and avocational pursuits. The occupational therapist works in consultation with qualified physicians, physical therapists, psychologists, nurses, social workers, speech therapists, vocational counselors, and others. Positions are available for work with patients of all ages in hospitals, outpatient centers, rehabilitation centers, halfway houses, special schools for the handicapped child, and in patients' homes. There is an acute shortage of occupational therapists to meet the increasing demands of rapidly expanding rehabilitation needs and programs. Therapists are needed as clinicians, administrators, educators, and investigators.

The education of the therapist is broad, since he must be able to evaluate the patient's abilities and administer treatment directed toward psychological adjustment, physical restoration, and prevocational goals. The therapist must be prepared to understand and interpret the physician's prescription; to understand the implications of the diagnostic condition as a medical entity and its meaning to the patient in terms of his life goals. He must be prepared to teach treatment activities at a level which will stimulate and aid each patient to work toward the highest level of adjustment in terms of specific and realistic treatment goals. He must be able to work in harmony and interdependence with other members of the institution staff and as a cooperative and loyal member of the therapeutic community. He must have the knowledge and skills necessary to carry out the organization and administration of the occupational therapy clinic.

Two programs of basic professional education are offered at Columbia. The program leading to the degree of Bachelor of Science is designed to prepare quality clinicians. The second, leading to the degree of Master of Science, is directed toward the development of master clinicians and leaders in the field by providing an opportunity for students to specialize in one area of occupational therapy practice; by development of basic concepts of administration, supervision, and education; by development of concepts and techniques in the scientific method.

The courses described in this bulletin meet the requirements set forth by the American Occupational Therapy Association and by the Council on Medical Education of the American Medical Association, as published in their *Essentials of an Accredited Curriculum in Occupational Therapy*, which regulates the standards by which schools are accredited. Graduates of both programs are eligible for the examination leading to admission to the Registry of Occupational Therapists, maintained by the American Occupational Therapy Association. This examination is held throughout the country in January and June of each year. Admission to the registry is the certification of a therapist to practice.

► ADMISSION REQUIREMENTS

Students are admitted only in September. Both men and women are admitted to professional courses, depending upon individual qualifications. Demands made on the physical endurance and emotional stamina of the therapist require a record of good health. Applicants must be graduates of an approved high school or the equivalent. Specific requirements for admission to each of the programs are as follows:

B.S. DEGREE PROGRAM

An applicant must have completed at least two years of work in a college approved by Columbia University. He must have earned 60 semester credits in liberal arts with a grade of C or better, to include a minimum of 6 semester credits in biology (including zoology), 3 semester credits in English composition, 6 semester credits in psychology, and 3 semester credits in sociology. Applicants may strengthen their backgrounds by undertaking additional study in the behavioral, biological, and physical sciences.

As a guide in planning these first two years of preparation in the liberal arts, the student is encouraged to maintain a balanced program of study including the biological, physical, and behavioral sciences and mathematics; English and speech; literature and languages; social sciences and philosophy; and the arts.

Transfer credit is usually not allowed either for courses in physical education or for any specific professional courses. A maximum of 12 credits is allowed for courses completed in music and in fine and industrial arts.

M.S. DEGREE PROGRAM

An applicant must hold a baccalaureate acceptable to Columbia University. The work for the degree must include 6 semester credits in biological sciences (of which 3 shall be in zoology), 6 semester credits in psychology, 3 semester credits in sociology, and 6 semester credits in English.

An applicant must submit results of either the Graduate Record Examination or the Miller Analogies Test.

An applicant should indicate to the satisfaction of the faculty a familiarity with, and adequate knowledge of, at least three creative or manual arts, and/or vocational or avocational skills.

ADMISSION PROCEDURE

Forms to be used in applying for admission may be obtained by writing to the Occupational Therapy Office, College of Physicians and Surgeons, 630 West 168th Street, New York, N.Y. 10032. Applications should be filed several months in advance of the time the student wishes to begin his studies. The completed forms must be accompanied by the application fee (see page 38). The fee is not returnable and is not credited toward tuition.

Transcripts of all post-secondary school education should be forwarded by the registrars of the respective schools directly to the Director of Courses in Occupational Therapy. A personal interview will be arranged for each applicant.

FOREIGN STUDENTS

Students from other countries are urged to apply for admission several months in advance of the time they wish to begin their studies. Application must be made on the form provided by the Occupational Therapy Office. The applicant must fulfill the usual admission requirements, as all students are considered for admission on the same basis.

A personal interview is required of all applicants, when feasible. If the applicant does not plan to be in this country until after action has been taken on his application, the College will try to arrange for an interview with a therapist or physician in the home country.

At the time application is filed, records must be submitted of all college or university education completed. These will be evaluated by the Foreign Student Admissions Officer of the University to determine the equivalency of the applicant's educational background in terms of admission requirements.

Further information about expenses, living arrangements in this country, and the University orientation program for foreign students may be obtained by writing to the Foreign Student Adviser, 211 The Foreign Student Center, Columbia University, New York, N.Y. 10027, U.S.A.

► DEGREE REQUIREMENTS

1. Continuous registration is expected until satisfactory completion of all requirements. *Leave of absence*: a student who must interrupt his studies for adequate reason—such as sustained ill health or military service—may be granted a leave of absence for a stated period, usually not to exceed one year. He should apply in writing to the Director of Courses in Occupational Therapy and include in his application the specific reason for requiring the leave and the length of time requested.

2. Minimum course requirements in areas of basic competency must be completed by candidates for either degree: biological sciences, behavioral sciences, medical conditions, therapeutic activities, and occupational therapy evaluation and treatment procedures.

3. Full-time (or the equivalent) supervised field experience in institutions for patient care. (See specific degree requirements below.) All clinical requirements should be completed within twelve months but must be completed within twenty-four months following completion of academic work.

Specific requirements for each of the degrees are as follows:

BACHELOR OF SCIENCE DEGREE

1. Two years of full-time approved course work in residence, including areas of competency outlined above.

2. Demonstrated competency in English composition.

3. A minimum of thirty-six weeks of full-time supervised field experience in institutions for patient care.

MASTER OF SCIENCE DEGREE

1. A minimum of 60 points of approved work of which 30 must be at graduate level. *Advanced standing*: a candidate who has completed basic professional education at an accredited school of occupational therapy may receive 30 points of credit toward the degree. Additional points of credit may be granted to recent recipients of the Columbia University Certificate in Occupational Therapy, the amount to be determined by the faculty.
2. Minimum course requirements must be completed in the following additional areas of competency: principles of administration; principles of supervision, guidance, or education; scientific method; an area of specialization.
3. A minimum of thirty-two weeks of full-time (or the equivalent) supervised field experience in institutions for patient care.
4. An independent project.

► PREPROFESSIONAL EXPERIENCE IN OCCUPATIONAL THERAPY

A Summer Experience Program is conducted annually during July and August for college students who are undecided about their future vocations but have a basic interest in the medical field. This program gives the student an opportunity to determine whether the profession of occupational therapy meets his interests, talents, and expectations. Students are assigned as aides in occupational therapy departments of treatment centers or hospitals within the New York metropolitan area. Out-of-town applicants are responsible for making arrangements for living accommodations. Some clinical centers are able to provide room and board. In many cases financial compensation is given by the treatment centers to those student aides who need the summer months for gainful employment to help defray expenses for their continued education.

The Program is not a University course and carries no fee or academic credit. Applications for this program are accepted until March 15 and should be made through the guidance department of the student's college or by writing to: Summer Experience Program, Occupational Therapy Courses, College of Physicians and Surgeons, 630 West 168th Street, New York, N.Y. 10032.

Program of Study

The University reserves the right to withdraw or modify the courses of instruction or to change the instructors as may be necessary.

► B.S. DEGREE PROGRAM

This program includes two academic years (sixteen months) of theoretical and technical study on the campus and nine months of clinical education in affiliated institutions of patient care. The utilization of summer periods for hospital experience enables the student to complete the full program in approximately two calendar years. The clinical education consists of full-time practical experience under the immediate direction of registered occupational therapists in psychiatric, orthopedic, neurological, general medical, and surgical services or hospitals. During the clinical education periods students also attend lectures, clinics, and staff meetings; they are introduced to related treatment departments and conduct case studies. Clinical education must be completed within one year after the academic work is completed. For electives, students should consult the bulletins of Teachers College and the School of General Studies.

The program is summarized in outline form on page 29. See page 7 for Key to Course Listings.

JUNIOR YEAR: AUTUMN TERM

*H.P. 3101x. Human anatomy

Professors Noback and Jones, Mr. Solimene, and Miss Cynkin. 3 points.

Anatomy of the human body, with emphasis on those features which are most important for muscular activity. Instruction is given by means of lectures and laboratory work, the latter based on prepared dissection of the human body.

*H.P. 3103x. Anatomy of the nervous system

Dr. O'Brien. 2 points.

The anatomy of the nervous system of man, including the structural unit, the cerebrospinal system, and the autonomic system. Attention is given to the gross divisions of the brain, spinal cord, and peripheral nerves, with particular emphasis on the controls affecting voluntary motion.

O.T. 3210x. Human development

Mrs. Fine. 3 points.

Integrated systems (physiological, cognitive, emotional, and social) and functions that unfold as man moves from birth through senescence. Consideration of various theories of development and the impact of each stage upon man's interaction with his environment.

O.T. 3212x. Group process

Mrs. Plotnick (in charge) and Mr. Petrolino. 3 points.

Prerequisite: general psychology and sociology.

A lecture-laboratory course designed to familiarize the student with the basic principles underlying group process and behavior, and the clinical application of these principles in occupational therapy.

O.T. 3432x. Therapeutic activities: design

Professor Vandiveer. 2 points.

Design principles and techniques applied to textiles, plastics, paper, and wood. Emphasis is on the development of basic skills and the capacity to analyze the components of each activity for its application in treatment.

O.T. 3434x. Therapeutic activities: woodworking and mechanical drawing

Mr. Lisenco. 2 points.

The fundamental principles both of woodworking with hand tools and of mechanical drawing.

O.T. 3551x. Professional concepts

Professor Franciscus and Mrs. Shelly. 1 point.

Role of occupational therapy in patient evaluation and treatment; the functions, and the ethical and legal responsibilities of the therapist; and the place of professional organizations.

JUNIOR YEAR: SPRING TERM**O.T. 3214y. Communication: basic concepts for therapists**

Professor Deutsch. 2 points.

The art of communication is studied to develop a broad understanding of interpersonal relationships. Practice in techniques of effective communication in the medical environment and in the community at large. Laboratory experience is provided in observation, interviewing, recording, and formal and informal reporting.

O.T. 4320y. Psychopathology

Sec A (for B.S. degree candidates in their junior year). Dr. Averbach and Mr. Petrolino. 3 points.

Sec B (for M.S. degree candidates in their first year). Dr. Firestein and Mrs. Gillette. 3 points.

Aspects of mental health and mental illness related to life patterns in childhood, adulthood, and old age. Directed toward developing familiarity with neurotic, psychotic, psychosomatic, and behavior disorders; their diagnosis, meaning, and treatment management. In interaction with patients, equal weight is given to knowledge acquired from written materials and from recitation sessions.

***H.P. 4325y. Neurological conditions**

Professor Charlton. 2 points.

Etiology, symptomatology, and treatment of diseases of the brain, spinal cord, and peripheral nerves.

O.T. 3436y. Therapeutic activities: pottery

Miss Krebs. 2 points.

Introduction to the uses of clay to create pottery and sculpture with coils and slabs and on the potter's wheel. Students learn to make molds, decorate, glaze, and stack and fire kilns.

O.T. 3438y. Therapeutic activities: needlecrafts and leathercraft

Professor Vandiveer. 3 points.

Skills in leatherwork, garment construction, and needlework are developed for their uses in patient care. Activities are analyzed for their physical and psychological components.

O.T. 3553y. Evaluation and treatment of psychosocial dysfunction

Mrs. Plotnick. 5 points.

Current theories of psychiatric occupational therapy considered in terms of therapeutic intervention in psychosocial dysfunction. Evaluation and identification of psychopathology; goal-setting and treatment-planning; application of treatment through therapeutic use of self, group, and activity. Clerkship assignments in occupational therapy departments.

SENIOR YEAR: AUTUMN TERM

***H.P. 3105x. Human physiology**

Professors Dellenback and Emmers. 3 points.

A comprehensive discussion of the major organ systems of the human body, with emphasis on neurophysiology and the physiology of exercise. Assigned readings and selected demonstrations.

***O.T. 4107x or y. Applied anatomy and kinesiology**

Miss Cynkin. 2 points.

Application of knowledge of gross anatomy of skeletal and muscular systems to mechanics of bodily movement. Analysis of skills and activities used in occupational therapy. Lectures and laboratory.

***H.P. 4323x. Medical and surgical conditions**

Professors Downey (medicine) and Bertsch (surgery). 2 points.

Medical conditions: a survey of medicine, with emphasis on medical conditions commonly seen by therapists. Lectures deal primarily with the relationship of pathological physiology to the development of signs and symptoms of disease. *Surgical conditions:* a survey of those common diseases for which surgical treatment is emphasized, including the underlying anatomy, pathology, and biochemistry.

O.T. 3440x. Therapeutic activities: textiles

Professor Vandiveer. 2 points.

Four-harness weaving, including pattern drafts, fabric analysis, and the development of loom adaptations are related to treatment. Development of skill and the capacity to analyze the components of each activity for its application in treatment.

***O.T. 3448x. Prevocational evaluation**

Mrs. Hyder. 2 points.

The role of occupational therapy in exploring and evaluating employment potentials of the handicapped. Analysis of jobs into component tasks and their physical and mental demands. The work sample technique as a tool of prevocational and vocational rehabilitation, dexterity tests, and other tools. The role of other disciplines and agencies.

O.T. 3556x. Pediatric application

Mrs. Knippenberg. 2 points.

Prerequisite: *O.T. 3210* or the equivalent.

Current theories and methods used in treating children who have psychosocial and/or physical dysfunctions. Emphasis is on meeting the child's physical, emotional, and social needs. Specific evaluative and treatment procedures, including observation, developmental and neurological assessment, and the utilization of play as a medium of treatment.

O.T. 3558x. Clerkship in special fields

Professor Vandiveer. 2 points.

Emphasis is on the role of occupational therapy in relation to patients in general medicine, surgery, and special fields, including the blind and the deaf. Treatment aims with various age groups. Students visit a comprehensive group of hospitals and acquire wide experience in the various situations. A weekly seminar is held to discuss and supplement the experience received during the clerkship visits.

SENIOR YEAR: SPRING TERM

***H.P. 4327y. Orthopedic conditions**

Dr. Andrews. 2 points.

Lectures and clinical presentations, including discussion of related problems—social, medical, surgical—and rehabilitation.

O.T. 3442y. Therapeutic activities: woodwork and metalwork

Mr. Lisenco. 3 points.

Prerequisite: *O.T. 3434* or the equivalent.

The relationships of material, technique, and form in the fabrication of wood and metal objects. Opportunity for developing reasonable knowledge and skill in the use of tools and the fundamental processes for their use in occupational therapy. In the woodworking section, the use of machine tools is stressed.

O.T. 3444y. Therapeutic activities: activities of daily living and orthotics

Miss Cohen. 3 points.

A laboratory course on some of the materials, equipment, and techniques to aid the handicapped in attaining maximum self-sufficiency in the activities of daily living. The needs of persons with motor, sensory, and emotional handicaps. Energy conservation techniques for cardiac and tuberculous patients. Experience in making functional splints and adapted equipment suitable for the physically disabled.

O.T. 3560y. Departmental administration

Miss Sattely and special lecturers. 2 points.

Departmental organization and administration of occupational therapy as a service within a larger organizational framework. Includes basic procedures, principles, legal aspects, and general guides. Introduction to governmental and nongovernmental agencies which make up the community of rehabilitation resources. Supplementary reading, term projects, and reports.

O.T. 3563y. Principles and application of therapeutic exercise

Professor Darling, Miss Cynkin, and associates. 3 points.

Physiology of exercise provides a basis for lectures and laboratory experience in evaluation and treatment of physical dysfunction. Methods of evaluating loss of function, and theories of treatment for deficits in strength, coordination, endurance, range of motion; prosthetic evaluation and training.

O.T. 3564y. Clerkship in physical dysfunction

Professor Vandiveer. 3 points.

Application of current principles and practices of therapeutic exercise as applied through occupational therapy techniques. A correlation of all previous and concurrent instruction in physical disabilities. Assigned case studies of patient application and study of allied professional fields. Weekly clinical assignments are followed by a seminar to discuss cases and problems encountered.

► **M.S. DEGREE PROGRAM**

The average student can expect to complete this program in twenty-two calendar months of full-time effort in classroom work, clinical practice, and independent study.

The first year of study includes a common core of courses referable to both the physical and psychiatric areas of occupational therapy practice. During the year the student selects one of these areas for major concentration in later studies.

In the summer months between the first and second years, the student carries out a three-month full-time clinical assignment in the area of practice *not* chosen for specialization. This is accompanied by advanced course work concerned with evaluation and treatment of patients in this category.

The second year of study is directed toward the area chosen for specialization. Throughout the academic year, the student spends a minimum of twenty hours a week in supervised clinical experience with patients in the area of specialization. Concurrent course work is concerned with advanced methods of evaluation and treatment, research methodology, and administration and supervision.

The independent project selected by the student should be planned during the autumn of the second year, in connection with the research course and concurrent clinical assignment. This should be carried out during the spring term, with the final report due for submission by the end of the third clinical assignment.

Following the second year a clinical assignment of two months is directed toward the enrichment of the student's background in accordance with his individual needs and desires.

Course requirements and their sequence are outlined on page 29. Courses included in the first year of study are indicated by an asterisk preceding the course in the B.S. program listings above. Additional courses for the M.S. program are listed below:

O.T. 4440y. Therapeutic activities: skills laboratory

Professor Vandiveer. 3 points.

Development of individual competence in skills selected from weaving, needlecraft, leatherwork, plastics, applied design, and ceramics. The components of each activity are analyzed for application in treatment. In consultation with the instructor, each student selects those skills needed to augment his own background.

O.T. 4442x. Therapeutic activities: general shop

Mr. Lisenco. 3 points.

The relationships of material, technique, and form in the fabrication of wood and metal objects. The basic principles of mechanical drawing. Development of reasonable knowledge and skill in the use of hand and machine tools and the fundamental processes.

O.T. 4444y. Therapeutic activities: activities of daily living, prevocational exploration, and orthotics

Mrs. Shelly. 3 points.

A laboratory course on some of the materials, equipment, and techniques to aid the handicapped in attaining maximum self-sufficiency in the activities of daily living. The needs of persons with motor, sensory, and emotional handicaps. Energy conservation and techniques of prevocational evaluation. Experience in making functional splints and adapted equipment suitable for the physically disabled.

O.T. 4551x. Professional concepts

Professor Franciscus and Mrs. Shelly. 1 point.

Professional identification of occupational therapy through examination of its historical development and trends, organizational arrangements, responsibilities, functions, and relationships. The complex nature of health care, its interdisciplinary arrangements, the continuum of health care from hospital to community, and the organizations concerned. Classroom discussions, clinic observations, and field visits.

O.T. 4562y. Principles of occupational therapy in physical dysfunction

Miss Cynkin. 2 points.

Prerequisite or corequisite: *O.T. 4551* and developmental psychology and kinesiology, or their equivalents.

Identification of the areas of physical dysfunction with which occupational therapy is concerned. Evaluative and treatment processes, and procedures. Written and oral communications concerning patient evaluation, treatment planning, and the ongoing treatment process. Classroom and clinic.

O.T. 4572y. Principles of occupational therapy in psychosocial dysfunction

Mrs. Fine. 2 points.

Prerequisite: developmental psychology or the equivalent.

Identification of the areas of psychosocial dysfunction with which occupational therapy is concerned. Theories of intervention, methods of evaluation, and treatment processes and procedures. Written and oral communications concerning patient evaluation, treatment planning, and the ongoing treatment process. Classroom and clinic.

SUMMER SESSION COURSES

O.T. 4663s. Practicum I: problems in physical rehabilitation

Miss Cynkin. 3 points.

For students who are not majors in physical rehabilitation.

Prerequisite: *O.T. 4562* and all other 3000- and 4000-level courses upon which this area of practice is based, or their equivalents.

Supervised clinical experience with patients, applying evaluative techniques, interpreting findings, planning and implementing treatment, and reporting results. Experience with the modalities necessary for the reestablishment of life functions of self care, vocations, and avocations. The theories of therapeutic exercise, human movement and activity analysis, and the psychodynamics of disability, handicap, and adjustment. Full-time for three months in clinic and classroom.

O.T. 4673s. Practicum IA: problems in psychiatric occupational therapy

Mrs. Plotnick. 3 points.

For students who are not majors in psychiatric occupational therapy.

Prerequisite: *O.T. 4572* and all other 3000- and 4000-level courses upon which this area of practice is based or their equivalents.

Under supervision, students apply evaluative techniques and interpret findings to plan and implement treatment. Emphasis is on concepts basic to treatment, theories of symbol behavior, nonverbal communication, object relations, psychological reactions to physical illness and trauma. Full-time for three months in clinic and classroom.

SECOND-YEAR COURSES**O.T. 4218y. Supervision: concepts and application**

Mrs. Fidler and Mrs. Fine. 3 points.

The goals, methods, techniques, and process; the responsibilities of the supervisor and supervisee; the relationship of learning theories; the techniques of counseling and appraisal.

H.P. 4561x. Introduction to research

Professor Downey and Miss Cordery (coordinator). 2 points.

Enrollment limited.

Open to occupational therapy and physical therapy students on an elective basis.

Prerequisite: the permission of the director.

An introduction to the philosophy, principles, and methods of scientific inquiry. Methods of investigation; the nature of evidence; obtaining, measuring, and evaluating information; the critical analysis of published research; library resources. Students have the opportunity to work in small groups for the purpose of formulating research proposals.

O.T. 6561x or y. Independent project

Major adviser. 3 or 6 points.

A minimum of 15 hours of work is required for each point of credit.

In consultation with his major adviser the student identifies, designs, and carries out a study in the area of patient care.

O.T. 6665x-6666y. Practicum II: advanced problems in physical rehabilitation

Miss Cynkin. 6 points.

For majors in physical rehabilitation.

Prerequisite: *O.T. 4562* and all other 3000- and 4000-level courses upon which this area of practice is based, or their equivalents.

The same focus as *O.T. 4663* but in greater depth. In addition, students study and apply advanced principles of biomechanics, kinesiology, neurophysiology, and the physiology of exercise. Opportunities to observe and participate in the administrative functioning of the department. Survey of pertinent research literature. Development of the student's independent project. Minimum of 20 hours weekly in clinic each term; additional classroom hours to be arranged.

O.T. 6675x-6676y. Practicum IIA: advanced problems in psychiatric occupational therapy

Mrs. Plotnick. 6 points.

For majors in psychiatric occupational therapy.

Prerequisite: *O.T. 4572* and all other 3000- and 4000-level courses upon which this area of practice is based, or their equivalents. For majors in this area of occupational therapy.

The same focus as *O.T. 4673* but in greater depth. In addition, students study the application of projective techniques and the use of specialized evaluative tools. The application of sociopsychological theories to activity analysis, patient evaluation, and the treatment process. Evaluation and treatment of the mental retardate. Survey of the pertinent research literature. Development of the student's independent project. Minimum of 20 hours weekly in clinic each term; additional classroom hours to be arranged.

SUMMER SESSION COURSE**O.T. 6680s. Practicum III**

The staff. 2 points.

Required of all M.S. degree candidates.

Prerequisite: completion of all course work and Practicums I and II.

A clinical experience is individually planned to enrich the student's background in accordance with his needs and desires. Special opportunities are provided to work with different age groups in specialty institutions such as nursing homes, pediatric centers, general hospitals; to work with diagnostic groups such as general medical-surgical patients, the mentally retarded, drug addicts, delinquents; to assist with administration, supervision, or research.

PRINCIPLES OF ADMINISTRATION AND RESEARCH METHODOLOGY

Courses on the principles of administration and research methodology are required for the degree and may be selected, along with electives, in consultation with the major adviser, from those offered in other schools of the University. The student's attention is directed to the bulletins of the Graduate School of Arts and Sciences and Teachers College with particular reference to the following courses as described in the latter bulletin:

T.J. 3107. Hospital administration. 2 points. Autumn.

T.I. 3830. Methods of empirical research, I. 3 points. Autumn.

T.I. 3831. Methods of empirical research, II. 3 points. Spring.

T.I. 3800. Understanding statistical methods. 3 points. Autumn and Spring.

► POSTGRADUATE COURSE**O.T. 6218. Concepts of supervision related to occupational therapy practices in psychiatry**

Mrs. Fidler and associates. Dates to be announced. 2 points.

Registration only by permission of the instructor. Open to registered occupational therapists with working experience. Minimum class, ten; maximum class, fifteen.

This course is planned to meet the needs of occupational therapists who supervise students and staff. Emphasis is on practice in psychiatric clinical settings, but a limited number of practitioners from other clinical areas will be admitted.

Further information and application forms are available from Occupational Therapy Courses, College of Physicians and Surgeons, 630 West 168th Street, New York, N.Y. 10032.

Outline of the Program

B.S. DEGREE PROGRAM

JUNIOR YEAR: AUTUMN TERM	POINTS	JUNIOR YEAR: SPRING TERM	POINTS
H.P. 3101: Human anatomy	3	O.T. 3214: Communications	2
H.P. 3103: The nervous system	2	O.T. 4320: Psychopathology	3
O.T. 3210: Human development	3	H.P. 4325: Neurological conditions	2
O.T. 3212: Group process	3	O.T. 3436: Therapeutic activities	2
O.T. 3432: Therapeutic activities	2	O.T. 3438: Therapeutic activities	3
O.T. 3434: Therapeutic activities	2	O.T. 3553: Evaluation and treatment of psychosocial dysfunction	5
O.T. 3551: Professional concepts	1		
Total points	16	Total points	17

SENIOR YEAR: AUTUMN TERM	POINTS	SENIOR YEAR: SPRING TERM	POINTS
H.P. 3105: Human physiology	3	H.P. 4327: Orthopedic conditions	2
O.T. 4107: Kinesiology	2	O.T. 3442: Therapeutic activities	3
H.P. 4323: Medical and surgical conditions	2	O.T. 3444: Therapeutic activities	3
O.T. 3440: Therapeutic activities	2	O.T. 3560: Departmental administration	2
O.T. 3448: Prevocational evaluation	2	O.T. 3563: Principles and application of therapeutic exercise	3
O.T. 3556: Pediatric application	2	O.T. 3564: Clerkship in physical dysfunction	3
O.T. 3558: Clerkship in special fields	2		
Behavioral science elective	2		
Total points	17	Total points	16

CLINICAL EDUCATION IN PSYCHIATRY: June–August, between the junior and senior years.

CLINICAL EDUCATION IN SPECIFIED FIELDS: July–December, after the senior year.

M.S. DEGREE PROGRAM

FIRST YEAR: AUTUMN AND SPRING TERMS	POINTS	SECOND YEAR: AUTUMN AND SPRING TERMS	POINTS
Biological sciences	10	Advanced occupational therapy treatment principles and practicum	6
Behavioral sciences	6	Administration	3
Medical conditions	9	Supervision, guidance, or teaching methods	3
Therapeutic activities	9	Research methods	3
Occupational therapy treatment principles	4	Independent project or electives	6 to 9
Total points	38	Total points	21 to 24

PRACTICUM (3 points): three months during the summer session following the first year.

PRACTICUM (2 points): two months during the summer session following the second year.

Hospitals and Agencies Affiliated for Clinical Education

A. HARRY MOORE SCHOOL, JERSEY CITY, N.J.

Agnes V. Thompson, D.Litt. *Director*

Daniel J. O'Regan, M.D. *Medical Director*

(Mrs.) Dorothy Brinning, O.T.R. *Chief Occupational Therapist*

ALBERT EINSTEIN COLLEGE OF MEDICINE, BRONX MUNICIPAL HOSPITAL CENTER, BRONX, N.Y.

Labe Scheinberg, M.D. *Acting Dean*

Arthur Abramson, M.D. *Chairman, Department of Rehabilitation Medicine*

Elaine Funnell, O.T.R. *Chief of Rehabilitation Occupational Therapy*

BELLEVUE HOSPITAL MEDICAL CENTER, NEW YORK, N.Y.

Bernard Weinstein. *Executive Director*

Bruce Grynbaum, M.D. *Director of Physical Medicine and Rehabilitation*

(Mrs.) Frances Corey, O.T.R. *Supervisor of Occupational Therapy, Rehabilitation*

M. J. BERNSTEIN INSTITUTE, BETH ISRAEL MEDICAL CENTER, NEW YORK, N.Y.

Marvin Perkins, M.D. *Director*

Harold L. Trigg, M.D. *Medical Director*

(Mrs.) Ingrid Nilsen, O.T.R. *Chief Occupational Therapist*

BETH ABRAHAM HOSPITAL, BRONX, N.Y.

William Adelman. *Executive Director*

Charles Messeloff, M.D. *Director of Physical Medicine and Rehabilitation*

(Mrs.) Iryne Patt, O.T.R. *Chief, Occupational Therapy*

BLYTHEDALE CHILDREN'S HOSPITAL, VALHALLA, N.Y.

Robert Stone. *Administrator*

John A. Downey, M.D. *Medical Director*

(Mrs.) Ruth B. Knippenberg, O.T.R. *Director of Occupational Therapy*

BOSTON STATE HOSPITAL, DORCHESTER, MASS.

Jonathan Cole, M.D. *Director*

Geraldine L. Finn, O.T.R. *Chief Occupational Therapist*

COLUMBIA-PRESBYTERIAN MEDICAL CENTER HOSPITALS, NEW YORK, N.Y.

Alvin J. Binkert. *Executive Vice President*

Robert C. Darling, M.D. *Director, Rehabilitation Medicine*

(Mrs.) Eleanor Shelly, O.T.R. *Chief Occupational Therapist*

CURATIVE WORKSHOP, UNIVERSITY OF PENNSYLVANIA, PHILADELPHIA, PA.

William Erdman, Jr., M.D. *Medical Consultant*

S. A. Christides, M.D. *Medical Consultant*

Clare S. Spackman, O.T.R. *Director*

DELAWARE CURATIVE WORKSHOP, INC., WILMINGTON, DEL.

Mae D. Hightower, O.T.R. *Executive Director*Arthur J. Heather, M.D. *Medical Director*Sue B. Hanson, O.T.R. *Chief Occupational Therapist*

DISTRICT OF COLUMBIA, GENERAL HOSPITAL, WASHINGTON, D.C.

John P. Nasou, M.D. *Medical Director*(Mrs.) I. R. Achter, O.T.R. *Coordinator, Physical Medicine and Rehabilitation*B. Joan Bellman, O.T.R. *Chief Occupational Therapist*

GAYLORD REHABILITATION HOSPITAL, WALLINGFORD, CONN.

Thomas F. Hines, M.D. *Director*William Baird, M.D. *Chief of Services*Ruth I. Jordan, O.T.R. *Chief Occupational Therapist*

HARTFORD REHABILITATION CENTER, INC., HARTFORD, CONN.

June Sokolov, O.T.R. *Executive Director*Arthur D. Wolf, M.D. *Supervising Medical Consultant*Clari Bare, O.T.R. *Acting Supervisor of Occupational Therapy*

HILLSIDE HOSPITAL, GLEN OAKS, N.Y.

Lewis L. Robbins, M.D. *Medical Director*Gail S. Fidler. *Director, Activities Therapy Department*Philip Petrolino, O.T.R. *Acting Director, Occupational Therapy Division*

INSTITUTE FOR THE CRIPPLED AND DISABLED, NEW YORK, N.Y.

Salvatore Di Michael, Ph.D. *Director*Lawrence Friedman, M.D. *Medical Director*(Mrs.) Ann Lane Mavromatis, O.T.R. *Chief Occupational Therapist*

INSTITUTE OF REHABILITATION MEDICINE, NEW YORK UNIVERSITY

MEDICAL CENTER, NEW YORK, N.Y.

Howard A. Rusk, M.D. *Director*Donald Covalt, M.D. *Medical Director*(Mrs.) Sophia Chiotelis, O.T.R. *Director of Occupational Therapy*

KINGS COUNTY HOSPITAL CENTER, BROOKLYN, N.Y.

Gordon Derzon. *Administrator*Joseph G. Benton, M.D. *Medical Director*Betty Ann Coron, O.T.R. *Chief Occupational Therapist*

KINGSBROOK JEWISH CENTER, BROOKLYN, N.Y.

Solomon L. Seigel. *Director*Bernard Sandler, M.D. *Director of Rehabilitation Medicine*Carol Moore, O.T.R. *Chief Occupational Therapist*

LUBIN REHABILITATION CENTER, HOSPITAL OF ALBERT

EINSTEIN COLLEGE OF MEDICINE, BRONX, N.Y.

Arthur Ricklin. *Administrator*Arthur Abramson, M.D. *Director of Rehabilitation Medicine*Ann B. Cogan, O.T.R. *Chief Occupational Therapist*MAGEE MEMORIAL HOSPITAL REHABILITATION CENTER,
PHILADELPHIA, PA.H. Frazer Parry, M.D. *Director*Thomas L. Ashcom, Jr., O.T.R. *Chief Occupational Therapist*

METROPOLITAN HOSPITAL, NEW YORK, N.Y.

A. Constantine. *Assistant Commissioner and Administrator*
Catherine Hinterbuchner, M.D. *Director of Clinical Services*
Judith Wasserman, O.T.R. *Chief Occupational Therapist*

MONTEFIORE HOSPITAL AND MEDICAL CENTER, NEW YORK, N.Y.

Martin Cherkasky, M.D. *Director*
Jerome S. Tobis, M.D. *Chief, Division of Rehabilitation Medicine*
(Mrs.) Mary Ellen Badger, O.T.R. *Director of Occupational Therapy*

MORRISTOWN MEMORIAL HOSPITAL, MORRISTOWN, N.J.

Robert Boyd. *Administrator*
Martin Lasoff, M.D. *Director, Department of Physical Medicine and Rehabilitation*
Janet M. Murray, O.T.R. *Chief Occupational Therapist*

MOSS REHABILITATION HOSPITAL, PHILADELPHIA, PA.

Martin Kaplan. *Executive Director*
Leonard Policoff, M.D. *Medical Director*
Allison Dea, O.T.R. *Chief Occupational Therapist*

MOUNT SINAI HOSPITAL, NEW YORK, N.Y.

S. David Pomrinse, M.D. *Director*
Lawrence H. Wisham, M.D. *Chief of Physical Medicine and Rehabilitation*
Josephine Cohen, O.T.R. *Chief Occupational Therapist*
Ralph Kaufman, M.D. *Chairman, Department of Psychiatry*
Robert del Bianco, O.T.R. *Director, Therapeutic Activities*
Mary Tierney, O.T.R. *Coordinator of Student Programming*

NEWINGTON CHILDREN'S HOSPITAL, NEWINGTON, CONN.

Burr H. Curtis. *Medical and Executive Director*
John C. Allen, M.D. *Physiatrist*
Mary Fiorentino, O.T.R. *Director of Occupational Therapy*

NEW JERSEY STATE HOSPITAL, TRENTON, N.J.

Martin H. Weinberg, M.D. *Medical Director and Chief Executive Officer*
Peter Baumecker, M.D. *Assistant Medical Director, West Hospital*
Naida Ackley, O.T.R. *Director of Occupational Therapy*

NEW YORK HOSPITAL, NEW YORK, N.Y.

D. Thompson, M.D. *Medical Director*
Joan Cavanaugh, O.T.R. *Chief Occupational Therapist, Physical Medicine*
Margaret Stewart, O.T.R. *Chief Occupational Therapist, Psychiatry, Payne Whitney Clinic*

NEW YORK MEDICAL COLLEGE—CENTER FOR CHRONIC DISEASE, BIRD S. COLER HOSPITAL, WELFARE ISLAND, N.Y.

Milton Lowenthal, M.D. *Director*
Ronald Green, M.D. *Acting Chief of Clinical Services Physical Medicine and Rehabilitation*
(Mrs.) Patricia Gilchrist, O.T.R. *Chief, Occupational Therapy Section*

NEW YORK STATE DEPARTMENT OF MENTAL HYGIENE

Allen D. Miller, M.D. *Commissioner*

Bronx State Hospital, Bronx, N.Y.

Israel Zwerling, M.D. *Director*

Harry E. Fox, O.T.R. *Chief Occupational Therapist*

(Mrs.) Margaret Rerek, O.T.R. *Coordinator of Educational Programs in Occupational Therapy*

Creedmoor State Hospital, Queens, N.Y.

Irwin Greenberg, M.D., D.M.Sc. *Director*

Hermine D. Plotnick, M.A., O.T.R. *Chief Occupational Therapist*

New York State Psychiatric Institute, New York, N.Y.

Lawrence C. Kolb, M.D. *Director*

(Mrs.) Alice R. Trei, O.T.R. *Senior Occupational Therapist*

(Mrs.) Judith Kunnes, O.T.R. *Clinical Supervisor, Occupational Therapy*

Rockland State Hospital, Orangeburg, N.Y.

Alfred M. Stanley, M.D. *Medical Director*

Elizabeth D. Pullman, O.T.R. *Director, Occupational Therapy*

ONONDAGA COUNTY DEPARTMENT OF HEALTH, HOME CARE SERVICES, SYRACUSE, N.Y.

David E. Bigwood, M.D. *Commissioner of Health*

David Nash, M.D. *Medical Director*

(Mrs.) Shirley H. Hoskins, O.T.R. *Chief Occupational Therapist*

PENNSYLVANIA DEPARTMENT OF PUBLIC WELFARE

Joseph Adlestein, M.D. *Commissioner of Mental Health*

Elizabeth P. Ridgway, O.T.R. *Patient Activities Consultant*

Allentown State Hospital, Allentown, Pa.

Howard T. Fiedler, M.D. *Superintendent*

David Orr, Ph.D. *Assistant Superintendent for Program*

(Mrs.) Tena G. Miller, O.T.R. *Director, Occupational Therapy*

Norristown State Hospital, Norristown, Pa.

Carmela F. de Rivas, M.D. *Superintendent*

Michael D. McGuire, M.D. *Assistant Superintendent*

Jeannetta V. Blackwood, O.T.R. *Director, Occupational Therapy*

ST. LUKE'S HOSPITAL CENTER, NEW YORK, N.Y.

Charles W. Davidson. *Executive Director*

John Cotton, M.D. *Director, Department of Psychiatry*

Carol A. Nodop, M.A., O.T.R. *Director, Occupational and Recreational Therapy Services*

ST. VINCENT'S HOSPITAL AND MEDICAL CENTER OF NEW YORK, NEW YORK, N.Y.

Reiss Mental Health Pavilion

Harvey Tompkins, M.D. *Director of Psychiatry*

Anthony Maniscalco, M.D. *Associate Director of Psychiatry*

Jenifer Thuell, O.T.R. *Coordinator of Occupational Therapy Services, Department of Psychiatry*

UNITED STATES ARMY HOSPITALS, OFFICE OF THE SURGEON GENERAL, WASHINGTON, D.C.

Lt. Col. Eileen O'Brien. *Chief, Army Medical Specialist Corps*

VETERANS ADMINISTRATION HOSPITALS

Bronx, New York

A. M. Kleinman, M.D. *Hospital Director*Haskel Elis, M.D. *Chief, Physical Medicine and Rehabilitation Service*Cecilia Sattely, O.T.R. *Chief, Occupational Therapy*

New York, N.Y.

John V. Sheehan. *Hospital Director*Edith L. Kristeller, M.D. *Chief, Physical Medicine and Rehabilitation Service*(Mrs.) Lillian D. Bennett, O.T.R. *Chief, Occupational Therapy*

Registration and Expenses

► REGISTRATION

Before attending University courses, each student must register in person during the registration period (see the Academic Calendar, on page 45). The registration procedure is as follows:

1. The student reports to the Office of Physical and Occupational Therapy at the College of Physicians and Surgeons, 630 West 168th Street, and fills out various forms giving information required for University records.

2. He has his program approved by the Director.

3. He takes his completed forms to the Office of the Registrar and pays his fees in the Office of the Bursar.

The Office of the Registrar is open Monday through Friday, 9 a.m. to 5 p.m.

All students are asked to give social security numbers when registering in the University. Those who do not now have a number should obtain one from their local social security office well in advance of registration.

ENGLISH PLACEMENT TESTS

All degree candidates must take a placement test in English: the English Placement Test if their first language is English, the English Language Placement Test if their first language is not English (see below). The English Placement Test is given the week of registration for the autumn term; the results of this test are announced at the first meeting of *English F1101*, when the student is advised of the appropriate English course to take, depending on his score.

ENGLISH LANGUAGE PLACEMENT TEST

Students whose first language is not English must take the English Language Placement Test before they register for courses. Performance on this examination determines whether or not further training in the language is needed. Students who do not meet the standards of the University may be required to follow a program of English before beginning professional courses or, if time permits, in conjunction with professional courses. No point credit is given for these courses, and their addition to the program of study lengthens the time necessary to earn the degree.

An appointment to take this test may be made in person at 206 Foreign Student Center, on the main campus at 116th Street and Broadway. On the day following the test, the student should consult the adviser in English for foreign students to obtain the number of the course for which he must register.

► AUDITING COURSES

Degree candidates who are enrolled for 15 points or more in the current term may audit one or two courses in any division of the University without charge. Application is made at the Registrar's Office during the change-of-program period in each term: Thursday, September 24, through Friday, October 2, for the autumn term; Wednesday, February 3, through Friday, February 12, for the spring term. Applications require (a) the certification of the Registrar that the student is eligible to audit, and (b) the approval of the dean of the school in which the courses are offered. For approval to audit Graduate Faculties courses, consult the Graduate Faculties division in the Registrar's Office.

For obvious reasons, elementary language courses, laboratory courses, and seminars will not be open to auditors. Other courses may be closed because of space limitations. In no case will an audited course appear on the student's record, nor is it possible to turn an audited course into a credit course by paying the fee after the fact.

► REGULATIONS

Each person whose registration has been completed will be considered a student of the University during the term for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the specific authorization of the dean or director of the school or college of the University in which he is first registered.

The privileges of the University are not available to any student until he has completed his registration. Since, under the University statutes, payment of fees is part of registration, no student's registration is complete until his fees have been paid. No student is permitted to attend any University course for which he is not officially registered unless he has been granted auditing privileges. No student may register after the stated period unless he obtains the written consent of the proper dean or director.

ATTENDANCE AND LENGTH OF RESIDENCE

No degree or certificate will be granted to a student who has not registered for and attended at the University courses of instruction equivalent to at least one academic year of full-time work.

Students are held accountable for absences incurred owing to late enrollment and are expected to attend punctually each class or laboratory exercise in each course. For credit toward the certificate or degree, regular attendance is required in addition to the proficiency attested by classwork and examination.

Students whose religious duties conflict at any time with academic requirements should apply to the proper director for an equitable solution.

A student in good standing may, for a valid reason, be granted a leave of absence by the director.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University.

► GRADES AND CREDIT

The student's performance in a course is reported according to the following grades: A, excellent; B, good; C, fair; and F, failure. A, B, and C are passing grades counting for credit toward the degree or certificate and accepted as the basis for advancement to a higher course. A student who does not receive a mark of C or above in a prescribed course must repeat that course.

The mark MU is not a grade and simply implies that in the opinion of the instructor the student may be given the privilege of taking a special examination. When this mark is given at the end of the autumn term, it does not necessarily mean that the student may not pursue his courses in the spring term, but that he will get no credit for the course in question until he has received a definite passing grade.

The mark of INC (incomplete) is given only to a student who has satisfactorily met all the requirements of a course but who has been compelled for reasons beyond his control to postpone certain assigned papers or reports.

Students who are absent from final examinations without excuse will receive an F in the course. Permission to be absent may be granted by the Directors only in the event of illness or some other emergency. Excused students must take a special examination as soon as arrangements can be made.

► ORIENTATION PROGRAM FOR NEW FOREIGN STUDENTS

The Foreign Student Center orientation program for new foreign students is held each fall to introduce students to the Center and its services, the University, and New York City. The five-day program includes the English Language Placement Test, information about registration, meetings with a dean or professor of the school in which the student is enrolled, tours of the Morningside campus and its library, a reception to meet the President of the University, a coffee hour with the International Union, and an opportunity to visit an American family.

The program begins September 15 at 10 a.m. in the auditorium of Earl Hall, on the Morningside campus. At that time students receive schedules for the rest of the activities. Although foreign students are not required to attend, they are welcome to come to any part of the program which is of interest to them.

► FEES

Tuition is payable each term in advance and as part of registration; the student health and hospital fee for the academic year is payable at registration in Septem-

ber. If these fees are paid after the last day of registration (see the Academic Calendar), they will not be reduced, and a late fee of \$6 will be imposed.

The following fees, prescribed by statute *for each autumn and spring term*, are subject to change at the discretion of the Trustees:

Tuition for all courses, per point, except where a special fee is fixed	\$ 72.00
With the proviso that the fee for a program of 15 or more points is	1,075.00
Clinical fee	12.00
Student health and hospital fee (see below)	65.36

APPLICATION FEES AND LATE FEES

Application for admission	\$ 20.00
Application for each special examination	10.00
Renewal of application for a degree or certificate (see below)	1.00
Late registration	6.00
Late application, or late renewal of application, for a degree or certificate	5.00

ACCEPTANCE FEE

Within two weeks after an applicant has been notified that his application has been accepted, he must notify the Director that he intends to matriculate and must accompany his letter with a check or money order for \$50, payable to Columbia University. This acceptance fee will be retained by the University, and if the applicant does not register for the following academic year, it will not be returned unless the University for any reason cancels the acceptance. If he registers in the courses in physical or occupational therapy in the class to which he has been admitted, the amount of the acceptance fee will be deducted from his tuition.

WITHDRAWAL AND REBATES

A student in good academic standing who is not subject to discipline will always be given an honorable discharge if he wishes to withdraw from the University. If he is under twenty-one years of age, his parent or guardian must first give consent in writing to the Director.

Any adjustment of the tuition that the student has paid is reckoned from the date on which the Registrar receives the student's written notification. The student health and hospital fee, application fees, late fees, and special fees are not subject to rebate. Up to and including the second Saturday after the first day of classes tuition will be retained in the following amount:

Full-time study	\$50.00
Part-time study	25.00

After the second Saturday after the first day of classes in the term, the above amount is retained plus an additional percentage of the remaining tuition (as indicated in the schedule below) for each week, or part of a week, of the term up to the date on which the student's written notice of withdrawal is received by the Registrar.

ADJUSTMENT SCHEDULE

	<i>Minimum Fees Retained</i>	<i>Percentage of Remaining Tuition Retained</i>
Second Saturday after first day of classes	\$25 or \$50	0
Following week	25 or 50	10
Second following week	25 or 50	20
Third following week	25 or 50	30
Fourth following week	25 or 50	45
Fifth following week	25 or 50	60
Sixth following week	25 or 50	75
Seventh following week	25 or 50	90
Eighth following week	25 or 50	100 (no adjustment)

STUDENT HEALTH AND HOSPITAL FEE

The student health and hospital fee is used to pay the annual premium of the Associated Hospital Service of New York for hospital insurance and to pay part of the cost of the student health service. A student who already carries hospital insurance will be charged \$7.28.

A physical examination (including x-ray and tuberculin tests) will be given each student in the professional courses during the first term of attendance. Further physical examinations will be given during the training period, whenever it is deemed advisable.

A student who requires hospitalization will be taken care of either in the wards of the Medical Center, or elsewhere, under his hospitalization insurance policy.

Daily office hours are held by the Student Health Service, Room 2-220, Vanderbilt Clinic. Members of the Health Service are available to attend ill students who live near the Medical Center. Students residing in Johnson Hall receive medical care through the Columbia University Medical Service in the Clark Building of St. Luke's Hospital.

APPLICATION OR RENEWAL OF APPLICATION FOR A DEGREE OR CERTIFICATE

A candidate for a degree or certificate must file application by the date specified in the Academic Calendar. If the degree or certificate is not earned by the next regular time for the issuance of diplomas subsequent to the date of filing, the application may be renewed for a fee of \$1 each time that the candidate chooses to come up for consideration. Degrees and certificates are awarded three times a year—in October, February, and June.

► ESTIMATED EXPENSES

UNIVERSITY EXPENSES (PER YEAR)	B.S. DEGREE AND CERTIFICATE PROGRAMS		M.S. DEGREE PROGRAM
			<i>First Year Second Year</i>
Tuition	\$2,150.00	\$2,150.00	\$1,440.00
Clinical fee	12.00	216.00	144.00
Health and hospital fee	65.36	65.36	65.36
TOTAL	\$2,227.36	\$2,431.36	\$1,649.36

LIVING EXPENSES (PER ACADEMIC YEAR)

Room	\$550-\$800
Board	950
Subway and bus fares (within program)	75
TOTAL	\$1,575-\$1,825

The costs of books, materials, equipment, and uniforms varies with the program chosen. In physical therapy, degree candidates will spend, in all, about \$225; certificate candidates, about \$200. In occupational therapy, degree candidates will spend about \$250. Fees for materials and equipment in studio classes are payable at the time of registration and are subject to change in accord with market prices.

During clinical practice, occupational therapy students spend some four months in residence in hospitals where they receive full maintenance (room, board, and laundry). In some instances a maintenance arrangement is possible for a longer period of time. The living expenses of physical therapy students during the summer clinical practice periods will vary depending upon the accommodations provided by the hospitals to which they are assigned.

Students who are assigned to hospitals outside the local area will need to pay nominal transportation expenses.

IMPORTANT NOTE: According to Treasury decision 6291, under Section 162 of the 1954 Internal Revenue Code, income tax deductions are allowed in many instances for tuition and other educational expenses. Students are referred to the federal ruling on income tax deductions for teachers and other professional people seeking to maintain or improve skills required in their employment.

► HOUSING

UNIVERSITY RESIDENCE HALLS

The University provides limited housing on the Morningside campus for undergraduate and graduate men and women, both single and married. Inquiries about men's housing and the accommodations for married students should be directed to the Residence Halls Office, 125 Livingston Hall, Columbia University, New York, N.Y. 10027. Women students should write to the women's residence hall, Johnson Hall, 411 West 116th Street, New York, N.Y. 10027.

Approximate rates in the graduate men's residence halls, which also accommodate undergraduates other than those in Columbia College, range from \$535 to \$670 for the academic year. Meals are available in the University Dining Halls on a cash basis. All rates are subject to change.

In Johnson Hall, room rates for the academic year range from \$510 to \$725, with \$625 the median rate. All residents are required to take breakfast and dinner at Johnson Hall five days a week at a cost of \$500 for the academic year, exclusive of weekends and the Christmas holidays. All rates are subject to change.

Burgess, at 542 West 112th Street, is a newly renovated, air-conditioned building for married graduate students. Accommodations range from efficiency apartments (one room plus kitchenette and bath) to two-bedroom apartments; basic furniture is provided. Rates range from \$132 to \$215 a month, including utilities. Requests for further information and for application forms should be directed to the Office of University Housing, 400 West 119th Street, New York, N.Y. 10027.

Anna C. Maxwell Hall, 179 Fort Washington Avenue, is the residence of the Department of Nursing, but rooms are also available to women registered in other divisions of the Medical Center. Maxwell Hall overlooks the Hudson River, and connects by underground passage with the other buildings of the Medical Center. Reception rooms, dining rooms, snack bar, library, and recreational facilities including a swimming pool are in this building. Each student has a single room with running water. Assignment of rooms is made by the term. Fees may be paid by the term or by the month. Approximate rates for this residence are: \$1,200, room and board, for twelve months; \$800, for nine months; \$80 a month, for a room only. Apply directly to the Department of Nursing, Faculty of Medicine, Columbia University, 622 West 168th Street, New York, N.Y. 10032.

OFF-CAMPUS HOUSING

Students who wish to live in furnished rooms or apartments off campus should consult the Columbia University Registry of Off-Campus Accommodations, 401 West 117th Street, New York, N.Y. 10027, for information. Single rooms in private apartments range from \$15 to \$20 a week; double rooms, from \$20 to \$25. Most apartments, when available, are in the price range of \$160 to \$250 a month.

International House, a privately owned student residence near the Morningside campus, has rooms for about five hundred graduate students, both foreign and American. Rates are \$80 to \$100 a month, including continental breakfast, linen and maid service, private telephone, and membership fees for the social activities of the House. To be eligible for admission a student must be at least twenty-one years old and must be registered for a minimum of 12 points or for a program of full-time research. Inquiries should be addressed to the Committee on Admissions, International House, 500 Riverside Drive, New York, N.Y. 10027.

► LOANS TO STUDENTS

Long-term loans at low interest rates are available from the University for tuition and fees, and under certain circumstances, for living expenses. Returning students

should apply well in advance of September 1, for the autumn term, and of December 15, for the spring term. New students should apply by July 31. Applications should be filed with the director of the program in which the student is enrolled.

Many states (among them Maine, Massachusetts, New Jersey, and New York) have loan funds available to their residents who are United States citizens, and federal loan funds are available to full-time students under the National Defense Student Loan Program (Title II of the National Defense Education Act of 1958).

For further information on loans, consult either the appropriate director or the Office of Financial Aid.

► SCHOLARSHIPS AND TRAINEESHIPS

A limited number of scholarships are available to students in occupational therapy and in physical therapy. Funds administered by a scholarship committee of the College of Physicians and Surgeons are made available by the Rehabilitation Services Administration, United States Department of Health, Education, and Welfare. Applications are judged on the basis of scholarship, financial need, and an assessment of potential contribution to the field; applications should be filed with the appropriate director by June 1 for the autumn term and by December 1 for the spring term on a form provided by the office of the director. Other scholarship opportunities are available by direct application to the agencies concerned: the New York Occupational Therapy Association; the National Association of Business Clubs; the National Society for Crippled Children and Adults; the Elks National Foundation; and other foundations and local service organizations known personally to the student.

► NEW YORK STATE SCHOLAR INCENTIVE AWARDS

Any student who has been a legal resident of New York State for the preceding year is entitled to a Scholar Incentive Award for each term in which he is registered as a full-time degree candidate. The amount of this award is based upon the net taxable balance of his income and the income of those responsible for his support, as reported on the New York State income tax return for the previous calendar year.

Further information and application forms may be obtained from the Department of Education, Regents Examination and Scholarship Center, Albany, N.Y. 12201. Application for awards should be filed two months in advance of the beginning of the term for which the grant is to apply.

► EMPLOYMENT

A student who needs to earn part of his expenses by working part time during the academic year should get in touch with the Student Employment Office, 601 Dodge (on the Morningside campus). The facilities of the Division are available to all registered students of the University and its affiliates, staff members, and wives of students.

TERM-TIME POSITIONS

Students should register for term-time work after class schedules are fixed, because many jobs have definite hour specifications.

Term-time positions available through the Office are generally characterized by the following:

1. They consist of ten to fifteen hours a week in a three-to-four-hour sequence every day at the same time, Monday through Friday. Some positions are downtown and require commuting from the campus.
2. The rate of pay is from \$2.00 to \$2.50 an hour.
3. Most positions are of a clerical or unskilled nature. Some may require a certain amount of manual labor.
4. Typing is the only specialized skill for which there is much demand.

SUMMER POSITIONS

Summer positions are similar to those available during the academic year. As a rule, professional or specialized positions are rare, even at the graduate level; however, there are summer training programs for students nearing graduation who are seriously considering careers in certain industries or in government. Interviews for these training programs begin in early December, and those for other summer employment begin at the start of the spring term.

WIVES OF STUDENTS

Wives of students may also register with the Office for term-time work. Those who are interested in full-time jobs on the campus should contact the University Personnel Office, 209 Dodge. Most of these jobs require typing and many require shorthand as well. Full-time University employees are eligible for 6 points of tuition exemption in each term, provided they qualify for admission and meet the deadlines for application to the University division in which they wish to enroll. Tuition-exempt courses are taken primarily in evening classes in the School of General Studies.

SKILL DEVELOPMENT COURSES

Skill development courses are sponsored by the Student Employment Office to help students obtain higher paying term-time and summer jobs. These courses are given in the evenings; there is a registration fee of approximately \$5 a course. The courses carry no credit and are offered apart from the regular University curriculum. A sampling of the courses includes elementary typewriting and proof-reading and editing. An up-to-date listing can be obtained by writing to the Student Employment Office.

► STUDENT ACTIVITIES

The Physical Therapy and Occupational Therapy Clubs are the student organizations which promote recreational, social, and professional activities. Within these

clubs each class of students has its own organization and officers with representatives on the University Student Council.

The Columbia University Student Council, composed of elected representatives from the students of the several schools and faculties of the University, represents the students in matters affecting the student body as a whole, with the object of promoting cooperation and understanding among the students, faculty, and administration.

The facilities of the main campus at Broadway and 116th Street as well as those of the Medical Center are open to physical and occupational therapy students. *The University Student Handbook*, which is distributed from the school office at registration, gives complete details about the libraries, sports, religious activities, social life on the campus, and the resources of New York City that students may enjoy at little expense.

Graduates of the physical and occupational therapy programs may have membership in the Alumni Federation of Columbia University.

Academic Calendar, 1970-1971

AUTUMN TERM

- Sept 15-19** Tuesday-Saturday. Foreign Student Center orientation program for new foreign students (see page 37).
- 22** Tuesday.* Registration, including payment of fees.
- 24** **Thursday. Classes begin.**
- Oct 2** Friday. Last day to change programs.
- 28** Wednesday. Award of October degrees and certificates.
- Nov 3** Tuesday. Election Day. Holiday.
- 26-28** **Thursday-Saturday. Thanksgiving Holidays.**
- Dec 1** Tuesday.† Last day to apply or reapply for February degrees and certificates.
- 21** **Monday, through January 2, 1971, Saturday. Christmas Holidays.**
- Jan 18-28** Monday-Thursday. Midyear examinations. Term ends.

SPRING TERM

- Feb 1** Monday.* Registration, including payment of fees.
- 3** Wednesday. Classes begin.
- 12** Friday. Last day to change programs.
- 24** Wednesday. Award of February degrees and certificates.
- Mar 1** Monday.† Last day to apply or reapply for June degrees and certificates.
- 28** **Sunday, through April 4, Sunday. Spring Holidays.**
- May 17-27** Monday-Thursday. Final examinations. Term ends.

COMMENCEMENT

- May 30** Sunday. Baccalaureate Service.
- June 1** **Tuesday. Conferring of degrees and certificates.**
-
- Aug 2** Monday.† Last day to apply or reapply for October degrees and certificates.

* Students allowed to register after the period specified must pay a late fee.

† Students who apply after this date must pay a late fee.

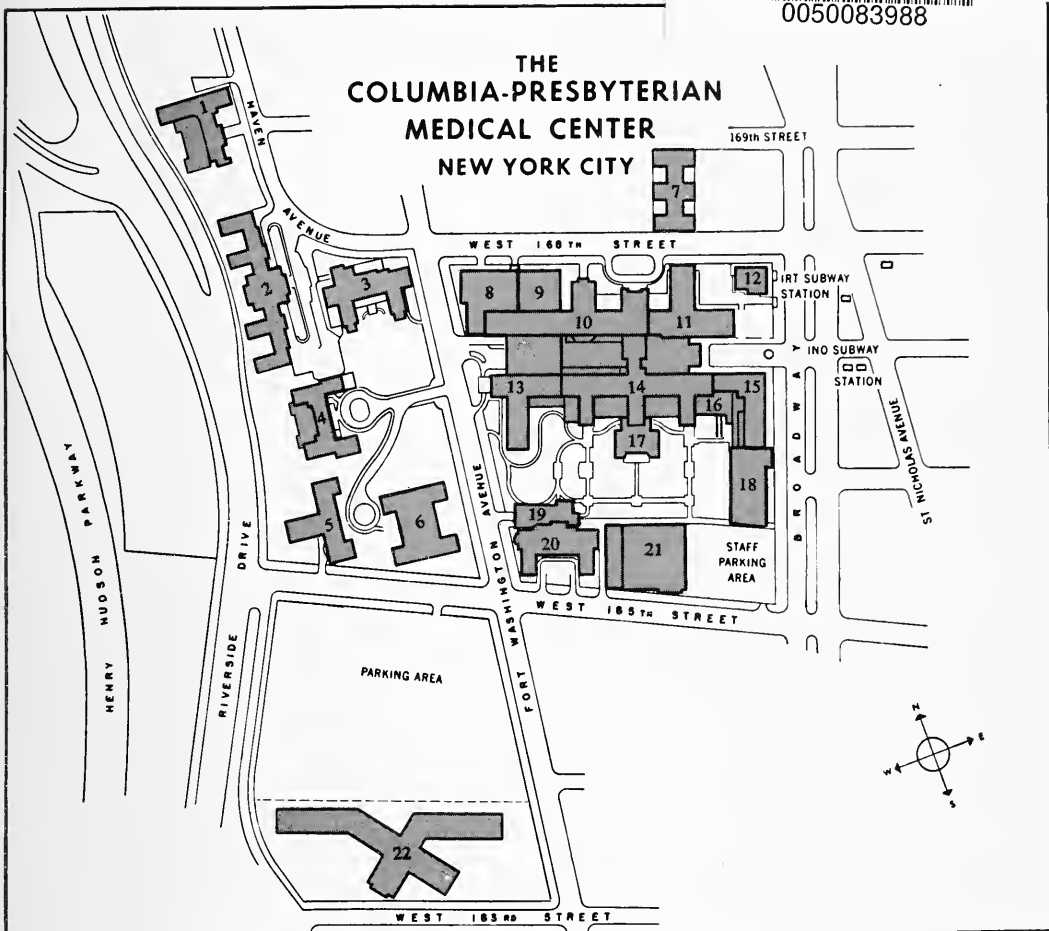


COURSES IN PHYSICAL THERAPY AND OCCUPATIONAL THERAPY ARE IN THE
WILLIAM BLACK MEDICAL RESEARCH BUILDING OF THE
COLLEGE OF PHYSICIANS AND SURGEONS



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THE COLUMBIA-PRESBYTERIAN MEDICAL CENTER NEW YORK CITY



- | | |
|---|--|
| 1. BARD HALL | 13. HARKNESS PAVILION |
| 2. N.Y. STATE PSYCHIATRIC INSTITUTE
PSYCHOANALYTIC CLINIC | 14. PRESBYTERIAN HOSPITAL
N.Y. ORTHOPEDIC HOSPITAL
SLOANE HOSPITAL
SQUIER UROLOGICAL CLINIC |
| 3. NEUROLOGICAL INSTITUTE OF NEW YORK | 15. BABIES HOSPITAL |
| 4. MAXWELL HALL | 16. RADIO THERAPY CENTER |
| 5. HARKNESS MEMORIAL HALL | 17. PAULINE A. HARTFORD MEMORIAL
CHAPEL |
| 6. DANA W. ATCHLEY PAVILION | 18. BABIES HOSPITAL RESEARCH,
TEACHING, AND OFFICE
ADDITION |
| 7. GEORGIAN NURSES RESIDENCE | 19. INSTITUTE OF OPHTHALMOLOGY
ADDITION |
| 8. WILLIAM BLACK MEDICAL
RESEARCH BUILDING | 20. INSTITUTE OF OPHTHALMOLOGY |
| 9. ALUMNI AUDITORIUM | 21. CENTRAL SERVICE BUILDING |
| 10. COLLEGE OF PHYSICIANS & SURGEONS | 22. FRANCIS DELAFIELD HOSPITAL,
N.Y.C. |
| 11. VANDERBILT CLINIC
SCHOOL OF DENTAL AND ORAL SURGERY | |
| 12. DEPARTMENT OF HEALTH
SCHOOL OF PUBLIC HEALTH AND
ADMINISTRATIVE MEDICINE
WASHINGTON HEIGHTS HEALTH
CENTER, N.Y.C. | |

To Reach the Medical Center: By subway, the Washington Heights Express of the IND Eighth Avenue or the Van Cortland Park train of the IRT Seventh Avenue. By bus, Fifth Avenue Bus #4 or #5. By car, the Westside Highway exit at the George Washington Bridge. Parking facilities are available at West 164th Street and Fort Washington Avenue.

To Columbia Students

THIS BULLETIN IS FOR YOUR USE AS A
SOURCE OF CONTINUING REFERENCE.
PLEASE SAVE IT. REPLACEMENT COPIES
CAUSE EXPENDITURES WHICH SHOULD
MORE DIRECTLY SERVE YOUR EDUCATION.